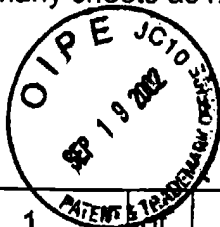


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/043,394	
		Filing Date	January 10, 2002	
		Confirmation Number	4664	
		First Named Inventor	Gerrit Klaerner	
		Group Art Unit	1645	
		Examiner Name		
Sheet	1	1	Attorney Docket No.	SMX 3093.6 (2001-006R1)



U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
MCC	161	5,843,655		McGill	12-01-1998
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			
MCC	162	Y-C. CHANG et al. "Surface Initiated Polymerization of Polyglutamate Copolymers" Abstract 304, Presented at the 209th ACS National Meeting in Anaheim, CA (April 2-7, 1995).			
MCC	163	Y-C. CHANG et al. "Surface Initiated Polymerization of Polyglutamate Copolymers" American Chemical Society, Polymer Preprints, Vol. 36, No. 1 (4/1995).			
MCC	164	Y-C. CHANG et al. "Surface Polymerization of Poly(2-hydroxy ethyl methacrylate) for High Density DNA Arrays" Max-Planck-Institute for Polymer Research - Center on Polymer Interfaces and Macromolecular Assemblies forum, Mainz, Germany (April 26-27, 1999).			
MCC	165	Y-C. CHANG et al. "Surface Polymerization of Poly(y-Alkyl-L-Glutamate) on Solid Substrates" Macromolecular Symposia, Vol. 118 (1997) pp. 641-646.			
MCC	166	Y-C. CHANG Website at The Henry Samuelli School of Engineering, homepage (2 pages) and Publications List (5 pages) printed 9/17/02.			

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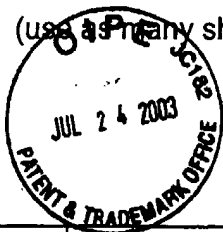
Examiner Signature	Mary E. Gervasey	Date Considered	01/06/05	TECH CENTER 1600/2900
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PTO/SB/08A				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/043,394
				Filing Date	January 10, 2002
				Confirmation Number	4664
				First Named Inventor	Gerrit Klaerner
				Group Art Unit	1641
				Examiner Name	Mary Ceperley
Sheet	1	of	1	Attorney Docket No.	SMX 3093.6(2001-006R1)



FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ²
		Office	Number ⁴	Kind Code ² (if known)			
MJC	168	EP	1 095 711	A2	Novartis AG	05-02-2001	
MJC	169	WO	96/00251	A1	The Dow Chemical Company	01-04-1996	
MJC	170	WO	00/65352	A1	Eidgenossisch Technische Hochschule Zurich	11-02-2000	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MJC	171	INGALL et al. "Surface Functionalization with Polymer and Block Copolymer Films Using Organometallic Initiators" J. Am. Chem. Soc., Vol. 122, No. 32 (2000) pp. 7845-7846.	
MJC	172	International Search Report for analogous application No. PCT/US02/00746 dated April 29, 2003.	

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PTO/SB/08A			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) 			Application Number	10/043,364	
			Filing Date	January 10, 2002	
			Confirmation Number	4664	
			First Named Inventor	Gerrit Klaerner et al.	
			Group Art Unit	1645-164	
			Examiner Name		
Sheet	1	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)


U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
MECV	1	4,581,429		Solomon et al.	04-08-1986
✓	2	4,946,778		Ladner et al.	08-07-1990
✓	3	4,973,493		Guire	11-27-1990
✓	4	5,002,582		Guire et al.	03-26-1991
✓	5	5,030,697		Hugl et al.	07-09-1991
✓	6	5,126,021		Grossman	06-30-1992
✓	7	5,143,854		Pirung et al.	09-01-1992
✓	8	5,217,492		Guire et al.	06-08-1993
✓	9	5,240,602		Hammen	08-31-1993
✓	10	5,258,454		Berg et al.	11-02-1993
✓	11	5,424,186		Fodor et al.	06-13-1995
✓	12	5,436,327		Southern et al.	07-25-1995
✓	13	5,445,934		Fodor et al.	08-29-1995
✓	14	5,480,723		Klainer et al.	01-02-1996
MECV	15	5,512,329		Guire et al.	04-30-1996

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PTO/SB/08A				Compleat if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)				Application Number	10/043,394
				Filing Date	January 10, 2002
				Confirmation Number	4664
				First Named Inventor	Gerrit Klaerner et al.
				Group Art Unit	1645/64/
				Examiner Name	
Sheet	2	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)

MEC ✓	16	5,512,439		Homes et al.	04-30-1996
✓	17	5,530,079		Veregin et al.	06-25-1996
✓	18	5,539,082		Nielsen et al.	07-23-1996
✓	19	5,624,711		Sundberg et al.	04-29-1997
✓	20	5,677,195		Winkler et al.	10-14-1997
✓	21	5,700,637		Southern	12-23-1997
✓	22	5,744,305		Fodor et al.	04-28-1998
✓	23	5,753,439		Smith et al.	05-19-1998
✓	24	5,770,456		Holmes	06-23-1998
✓	25	5,800,992		Fodor et al.	09-01-1998
✓	26	5,807,522		Brown et al.	09-15-1998
✓	27	5,824,473		Maede et al.	10-20-1998
✓	28	5,837,832		Chee et al.	11-17-1998
✓	29	5,846,724		Bensimon et al.	12-08-1998
✓	30	5,858,653		Duran et al.	01-12-1999
✓	31	5,868,938		Bomer et al.	02-09-1999
✓	32	5,872,003		Koster	02-16-1999
✓	33	5,902,723		Dower et al.	05-11-1999
✓	34	5,919,523		Sundberg et al.	07-06-1999
MEC ✓	35	5,919,626		Shi et al.	07-06-1999

Examiner Signature	<i>Mary E. Ceperley</i>	Date Considered	01/06/05
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PTO/SB/08A			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/043,394	
			Filing Date	January 10, 2002	
			Confirmation Number	4664	
			First Named Inventor	Gerrit Klaerner et al.	
			Group Art Unit	1645 / 641	
			Examiner Name		
Sheet	4	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ²
		Office	Number ⁴	Kind Code ² (if known)			
MEC	55	WO	89/02449	A1	Thies Karsten, Heuck Claus-Christian	03-23-1989	
MEC	56	WO	90/05303	A1	Pharmacia AB	05-17-1990	
MEC	57	WO	96/24620	A1	Elf Atochem S.A.	08-15-1996	
MEC	58	WO	97/41425	A1	Pence, Inc.; McGill University	11-06-1997	
MEC	59	WO	98/30601	A2	E.I. Du Pont De Nemours & Co.	07-16-1998	
MEC	60	WO	99/03894	A1	Ciba Specialty Chemicals Holding, Inc.	01-28-1999	
MEC	61	WO	99/06425	A1	Corning Incorporated	02-11-1999	
MEC	62	WO	99/36571	A2	Biochip Technologies, GMBH	07-22-1999	
MEC	63	WO	99/61653	A2	Syntrix Biochip	12-02-1999	
MEC	64	WO	00/33078	A1	Syntrix Biochip, Inc.	06-08-2000	
MEC	65	WO	00/33084	A2	Syntrix Biochip, Inc.	06-08-2000	
MEC	66	WO	00/43539	A2	Biochip Technologies, GMBH	07-27-2000	
MEC	67	EP	0 205 232	A1	Kelsius, Inc.	12-17-1986	

Examiner Signature	Mary E. Copenley	Date Considered	01/06/05
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PTO/SB/08A				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/043,394
				Filing Date	January 10, 2002
				Confirmation Number	4664
				First Named Inventor	Gerrit Klaerner et al.
				Group Art Unit	1645/641
				Examiner Name	
Sheet	5	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)



MEC	68	EP	0 361 229	A2	Bayer AG	07-09-1991	
MEC	69	EP	0 780 408	A2	Bayer AG	02-09-1999	
MEC	70	EP	1 035 218	A1	BioChip Technologies, GmbH	09-13-2000	
MEC	71	EP	1 081 163	A1	Affymetrix, Inc.	03-07-2001	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MEC	72	ANDERS et al. "Surface Modification with Hydrogels via Macroinitiators for Enhanced Friction Properties of Biomaterials" J.M.S. - Pure Appl. Chem. Vol. A36, Nos. 7&8 (1999) pp. 1017-1029.	
MEC	73	BAKER et al. "Structure of Polymer Brushes Under Shear Flow in a Good Solvent" Macromolecules, Vol. 33, No. 4 (2000) pp. 1120-1122.	
MEC	74	BENOIT et al. "Development of a Universal Alkoxyamine for "Living" Free Radical Polymerizations" Journal of the American Chemical Society, Vol. 121, No. 16 (1999) pp. 3904-3920	
MEC	75	BERGBREITER et al. "Meisenheimer Rearrangement of Allyl N-Oxides as a Route to Initiators for Nitroxide-Mediated "Living" Free Radical Polymerizations" Macromolecules, Vol. 31, No. 18 (1998) pp. 6380-6382.	
MEC	76	BIESALSKI et al. "Preparation and Characterization of a Polyelectrolyte Monolayer Covalently Attached to a Planar Solid Surface" Macromolecules, Vol. 32, No. 7 (1999) pp. 2309-2316.	
MEC	77	BOVEN et al. "Radical Grafting of Poly(methyl methacrylate) onto Silicon Wafers, Glass Slides and Glass Beads" Polymer Communications, Vol. 32, No. 2 (1991) pp. 50-53.	
MEC	78	CHAN et al. "The Biophysics of DNA Hybridization with Immobilized Oligonucleotide Probes" Biophysical Journal, Vol. 69, No. 6 (1995) pp. 2243-2255.	

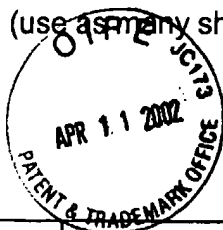
Examiner Signature	Mary E. Gervasey	Date Considered	01/06/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/043,394
				Filing Date	January 10, 2002
				Confirmation Number	4664
				First Named Inventor	Gerrit Klaerner et al.
				Group Art Unit	1645/164/
				Examiner Name	
Sheet	6	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)



MEC	79	CHEUNG et al. "Making and Reading Microarrays" Nature Genetics Supplement, Vol. 21 (1/1999) pp. 15-19.	
MEC	80	COLE et al. "The EBV-Hybridoma Technique and Its Application to Human Lung Cancer" Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc. (1985) pp. 77-96.	
MEC	81	COTE et al. "Generation of Human Monoclonal Antibodies Reactive with Cellular Antigens" Proceedings of the National Academy of Sciences" Vol. 80, No. 7 (4/1983) pp. 2026-2030.	
MEC	82	de BOER et al. "Living" Free Radical Photopolymerization Initiated from Surface-Grafted Iniferter Monolayers" Macromolecules, Vol. 33, No. 2 (2000) pp. 349-356.	
MEC	83	DHAR et al. "Modification of Silica Surfaces Using Surface Initiated Polymerization" Abstracts of Papers, Part 2, 215th ACS National Meeting, Dallas, TX (1998) Abstract No. 147.	
MEC	84	FISCHER "The Persistent Radical Effect In "Living" Radical Polymerization" Macromolecules, Vol. 30, No. 19 (1997) pp. 5666-5672.	
MEC	85	GLAZER "Phycobilisomes: Structure and Dynamics" Annual Review of Microbiology, Vol. 36 (1982) pp. 173-198.	
MEC	86	GRABAREK et al. "Zero-Length Crosslinking Procedure with the Use of Active Esters" Analytical Biochemistry, Vol. 185 (1990) pp. 131-135.	
MEC	87	HARRISON et al. "Reducing Substrate Pinning of Block Copolymer Microdomains with a Buffer Layer of Polymer Brushes" Macromolecules, Vol. 33, No. 3 (2000) pp. 857-865.	
MEC	88	HAWKER et al. "Accurate Control of Chain Ends by a Novel "Living" Free-Radical Polymerization Process" Macromolecules, Vol. 28, No. 8 (1995) pp. 2993-2995.	
MEC	89	HAWKER "Architectural Control in "Living" Free Radical Polymerizations: Preparation of Star and Graft Polymers" Angew. Chem. Int. Ed. Engl., Vol. 34, No. 13/14 (1995) pp. 1456-1459.	
MEC	90	HAWKER et al. "Initiating Systems for Nitroxide-Mediated "Living" Free Radical Polymerizations: Synthesis and Evaluation" Macromolecules, Vol. 29, No. 16 (1996) pp. 5245-5254.	
MEC	91	HAWKER et al. "Manipulation of Surface Properties Using Novel Grafted Copolymer Brushes and Surface Initiated Polymerization" Polymer Preprints, Vol. 40, No. 2 (8/1999) p. 101.	

Examiner Signature	Mary E. Capelley	Date Considered	01/06/05
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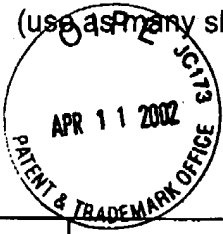
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PTO/SB/08A		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/043,396
		Filing Date	January 10, 2002
		Confirmation Number	4664
		First Named Inventor	Gerrit Klaerner et al.
		Group Art Unit	1645/641
		Examiner Name	
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		Attorney Docket No.	SMX 3093.6 (2001-006R1)



MEC	92	HAWKER et al. "Manipulation of Surface Properties Using Novel Grafted Copolymer Brushes and Surface-Initiated Polymerization" 218th ACS National Meeting, Abstracts of Papers, Part 2, New Orleans, LA (8/1999) Abstract 345-POLY.	
MEC	93	HAWKER et al. "Synthesis and Application of Functionalized Specialty Polymers Using 'Living' Free Radical Procedures" Polymer Preprints, Vol. 39, No. 1 (3/1998) pp. 626-627.	
✓	94	HENDRICKSON et al. "Crystal Structure of Core Streptavidin Determined from Multiwavelength Anomalous Diffraction of Synchrotron Radiation" Proceedings of the National Academy of Sciences USA, Vol. 86, No. 7 (4/1989) pp. 2190-2194.	
✓	95	HERTLER et al. "Group-Transfer Polymerization on a Polymeric Support" Macromolecules, Vol. 23, No. 5 (1990) pp. 1264-1268.	
✓	96	HIGASHI et al. "High-Spatioresolved Microarchitectural Surface Prepared by Photograft Copolymerization Using Dithiocarbamate: Surface Preparation and Cellular Responses" Langmuir, Vol. 15, No. 6 (1999) pp. 2080-2088.	
✓	97	HODGES et al. "Preparation of Designer Resins via Living Free Radical Polymerization of Functional Monomers on Solid Support" J. Comb. Chem., Vol. 2, No. 1 (2000) pp. 80-88.	
✓	98	HOSOYA et al. "In Situ Surface-Selective Modification of Uniform Size Macroporous Polymer Particles with Temperature-Responsive Poly-N-isopropylacrylamide" Macromolecules, Vol. 27, No. 14 (1994) pp. 3973-3976.	
✓	99	HUANG et al. "Mixed Lamellar Films: Evolution, Commensurability Effects, and Preferential Defect Formation" Macromolecules, Vol. 33, No. 1 (2000) pp. 80-88.	
✓	100	HUANG et al. "Neutrality Conditions for Block Copolymer Systems on Random Copolymer Brush Surfaces" Macromolecules, Vol. 32, No. 16 (1999) pp. 5299-5303.	
✓	101	HUANG et al. "Surface-Initiated Radical Polymerization on Porous Silica" Analytical Chemistry, Vol. 69, No. 22 (1997) pp. 4577-4580.	
MEC	102	HUANG et al. "Surface Initiation of Living Radical Polymerization for Growth of Tethered Chains of Low Polydispersity" Macromolecules, Vol. 32, No. 5 (1999) pp. 1694-1696.	

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PTO/SB/08A		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/043,394		
		Filing Date	January 10, 2002		
		Confirmation Number	4664		
		First Named Inventor	Gerrit Klaerner et al.		
		Group Art Unit	1645 / 641		
		Examiner Name			
Sheet	8	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)



ME	103	HUANG et al. "Using Surface Active Random Copolymers to Control the Domain Orientation in Diblock Copolymer Thin Films" Macromolecules, Vol. 31, No. 22 (1998) pp. 7641-7650.
✓	104	HUSE et al. "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda" Science, Vol. 246, No. 4935 (12/1989) pp. 1275-1281.
✓	105	HUSSEMAN et al. "Controlled Synthesis of Polymer Brushes by "Living" Free Radical Polymerization Techniques" Macromolecules, Vol. 32, No. 5 (1999) pp. 1424-1431.
✓	106	HUSEMANN et al. "Manipulation of Surface Properties by Patterning of Covalently Bound Polymer Brushes" Journal of the American Chemical Society, Vol. 122, No. 8 (2000) pp. 1844-1845.
✓	107	HUSEMANN et al. "Surface-Initiated Polymerization for Amplification of Self-Assembled Mono-layers Patterned by Microcontact Printing" Angew. Chem. Int. Ed., Vol. 38, No. 5 (1999) pp. 647-649.
✓	108	JORDAN et al. "Surface Initiated Living Cationic Polymerization of 2-Oxazolines" Journal of the American Chemical Society, Vol. 120, No. 2 (1/1998) pp. 243-247.
✓	109	KOHLER et al. "Continuous Cultures of Fused Cells Secreting Antibody of Predefined Specificity" Nature, Vol. 256, No. 5517 (8/1975) pp. 495-497.
✓	110	KOZBOR et al. "The Production of Monoclonal Antibodies from Human Lymphocytes" Immunology Today, Vol. 4, No. 3 (1983) pp. 72-79.
✓	111	LASCHITSCH et al. "Thickness Dependence of the Solvent-Induced Glass Transition in Polymer Brushes" Macromolecules, Vol. 32, No. 4 (1999) pp. 1244-1251.
✓	112	LEE et al. "Surface Photograft Polymerization on Segmented Polyurethane Using the Iniferter Technique" Journal of Biomedical Materials Research, Vol. 47, No. 4 (1999) pp. 564-567.
✓	113	LI et al. "Mono- and Dinitroxide Styrene Polymerization Initiators" Macromolecules, Vol. 29, No. 26 (1996) pp. 8554-8555.
✓	114	LOCKHART et al. "Expression Monitoring by Hybridization to High-Density Oligonucleotide Arrays" Nature Biotechnology, Vol. 14, No. 13 (1996) pp. 1675-1680.
ME	115	LUEKING et al. "Protein Microarrays for Gene Expression and Antibody Screening" Analytical Biochemistry, Vol. 270, No. 1 (1999) pp. 103-111.

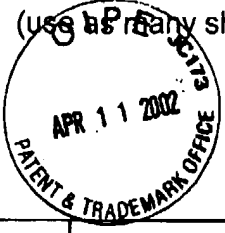
Examiner Signature	Mary E. Ceperley	Date Considered	01/06/05
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				Confirmation Number	4664
				First Named Inventor	Gerrit Klaerner et al.
				Group Art Unit	1645-1641
				Examiner Name	
Sheet	9	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)

MCC	116	MALMSTROM et al. "Development of a New Class of Rate-accelerating Additives for Nitroxide-Mediated 'Living' Free Radical Polymerization" Tetrahedron Letters, Vol. 53, No. 45 (1997) pp. 15225-15236.	
✓	117	MALMSTROM et al. "Macromolecular Engineering via 'living' Free Radical Polymerizations" Macromol. Chem. Phys. Vol. 199, No. 6 (6/1998) pp. 923-935.	
✓	118	MANSKY et al. "Controlling Polymer-Surface Interactions with Random Copolymer Brushes" Science, Vol. 275 (3/1997) pp. 1458-1460.	
✓	119	MANSKY et al. "Ordered Diblock Copolymer Films on Random Copolymer Brushes" Macromolecules, Vol. 30, No. 22 (1997) pp. 6810-6813.	
✓	120	MATYJASZEWSKI et al. "Polymers at Interfaces: Using Atom Transfer Radical Polymerization in the Controlled Growth of Homopolymers and Block Copolymers from Silicon Surfaces in the Absence of Untethered Sacrificial Initiator" Macromolecules, Vol. 32, No. 26 (1999) pp. 8716-8724.	
✓	121	MATYJASZEWSKI et al. "Simple and Efficient Synthesis of Various Alkoxyamines for Stable Free Radical Polymerization" Macromolecules, Vol. 31, No. 17 (1998) pp. 5955-5957.	
✓	122	McGALL et al. "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates" Journal of the American Chemical Society, Vol. 119, No. 22 (6/1997) pp. 5081-5090.	
✓	123	MEIER et al. "Polymerization of Styrene with Initiator Ionically Bound to High Surface Area Mica: Grafting via an Unexpected Mechanism" Vol. 27, No. 6 (1994) pp. 1637-1641.	
✓	124	NAKAYAMA et al. "Preparation of Poly(ethylene glycol)-polystyrene Block Copolymers Using Photochemistry of Dithiocarbamate as a Reduced Cell-Adhesive Coating Material" Biomaterials, Vol. 20 (1999) pp. 963-970.	
✓	125	NAKAYAMA et al. "Surface Macromolecular Architectural Designs Using Photo-Graft Copolymerization Based on Photochemistry of Benzyl N,N-Diethyldithiocarbamate" Macromolecules, Vol. 29, No. 27 (1996) pp. 8622-8630.	
✓	126	NAKAYAMA et al. "Surface Macromolecular Microarchitecture Design: Biocompatible Surfaces via Photo-Block-Graft-Copolymerization Using N,N-Diethyldithiocarbamate" Langmuir, Vol. 15, No. 17 (1999) pp. 5560-5566.	

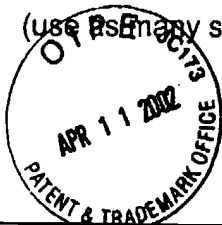
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/043,394
				Filing Date	January 10, 2002
				Confirmation Number	4664
				First Named Inventor	Gerrit Klaerner et al.
				Group Art Unit	1645-1641
				Examiner Name	
Sheet	10	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)



MFC	127	OTSU "Iniferter Concept and Living Radical Polymerization" Journal of Polymer Science, Part A: Polymer Science, Vol. 38 (2000) pp. 2121-2136.	
MFC	128	OTSU et al. "Solid-Phase Block Copolymer Synthesis by the Iniferter Technique" Vol. 19, No. 7 (1986) pp. 2087-2089.	
✓	129	PENG et al. "Polymer Brushes with Liquid Crystalline Side Chains" Macromolecules, Vol. 32, No. 20 (1999) pp. 6759-6766.	
✓	130	PETRO et al. "Polymers Immobilized on Silica Gels as Stationary Phases for Liquid Chromatography" Chromatographia, Vol. 37, No. 9-10 (11/1993) pp. 549-561.	
✓	131	PRUCKER "Grafting of Polymers to Microparticulate Silica by Using Immobilized Azo Initiators" Chemical Abstracts, Vol. 123, No. 18 (1995) Abstract No. 123: 229210z.	
✓	132	PRUCKER et al. "Mechanism of Radical Chain Polymerizations Initiated by Azo Compounds Covalently Bound to the Surface of Spherical Particles" Macromolecules, Vol. 31, No. 3 (1998) pp. 602-613.	
✓	133	PRUCKER "Synthesis of Poly(styrene) Monolayers Attached to High Surface Area Silica Gels Through Self-Assembled Monolayers of Azo Initiators" Macromolecules, Vol. 31, No. 3 (1998) pp. 592-601.	
✓	134	RUHE "Polymers Grafted From Solid Surfaces" Macromol. Symp., Vol. 126 (1997) pp. 215-222.	
✓	135	SARIN et al. "Inhibition of Acquired Immunodeficiency Syndrome Virus by Oligodeoxynucleoside Methylphosphonates" Proceedings of the National Academy of Sciences USA, Vol. 85, No. 20 (10/1988) pp. 7448-7451.	
✓	136	SEERY et al. "Designing Polymer Surfaces on Gold and Glass Using Surface Initiated Polymerizations" 214th ACS National Meeting, Los Vegas, NV (1997) Abstract 044.	
✓	137	SEERY et al. "Direct Synthesis of Polymer Brushes" Polymer Preprints, Vol. 40, No. 2 (1999) pp. 148-149.	
MFC	138	SEIDEL et al. "Individual Polymer Paths and End-Point Stretching in Polymer Brushes" Macromolecules, Vol. 33, No. 2 (2000) pp. 634-640.	

Examiner Signature	Mary E. Cepulley	Date Considered	01/06/05
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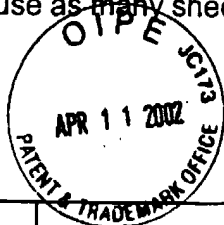
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		Application Number	10/043,394
		Filing Date	January 10, 2002
		Confirmation Number	4664
		First Named Inventor	Gerrit Klaerner et al.
		Group Art Unit	1645 164
		Examiner Name	
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MCC	139	SEMENOV et al. "Collective Dynamics of Polymer Brushes" Macromolecules, Vol. 33, No. 2 (2000) pp. 613-623.	
✓	140	SHAH et al. "Using Atom Transfer Radical Polymerization to Amplify Monolayers of Initiators Patterned by Microcontact Printing into Polymer Brushes for Pattern Transfer" Macromolecules, Vol. 33, No. 2 (2000) pp. 597-605.	
✓	141	SIDORENKO et al. "Radical Polymerization Initiated from a Solid Substrate. 3. Grafting from the Surface of an Ultrafine Powder" Macromolecules, Vol. 32, No. 14 (1999) pp. 4539-4543.	
✓	142	SOUTHERN et al. "Molecular Interactions on Microarrays" Nature Genetics Supplement, Vol. 21 (1/1999) pp. 5-9.	
✓	143	STEIN et al. "Physicochemical Properties of Phosphorothioate Oligodeoxynucleotides" Nucleic Acids Research, Vol. 16, No. 8 (1988) pp. 3209-3221.	
✓	144	SUGAWARA et al. "Novel Surface Graft Copolymerization Method With Micron-Order Regional Precision" Macromolecules, Vol. 27, No. 26 (1994) pp. 7809-7814.	
✓	145	THEATO et al. "Stabilization of Lipid Bilayers on Surfaces Through Charged Polymers" J.M.S. - Pure Appl. Chem., Vol. A36, No. 7&8 (1999) pp. 1001-1015.	
✓	146	TOVAR et al. "Patterning Molecularly Thin Films of Polymers - New Methods for Photolithographic Structuring of Surfaces" Supramolecular Science, Vol. 2, No. 2 (1995) pp. 89-98.	
✓	147	TSUBOKAWA et al. "Effect of Initiating Groups Introduced onto Ultrafine Silica on the Molecular Weight Polystyrene Grafted onto the Surface" Polymer Bulletin, Vol. 31, No. 4 (1993) pp. 457-464.	
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✓	149	TSUBOKAWA et al. "Surface Grafting of Polymers onto Carbon Thin Film" Journal of Applied Polymer Science, Vol. 58, No. 8 (11/21/95) pp. 1221-1227.	
MCC	150	TSUBOKAWA et al. "Surface Grafting of Polymers onto Glass Plate: Polymerization of Vinyl Monomers Initiated by Initiating Groups Introduced onto the Surface" Journal of Applied Polymer Science, Vol. 65 (1997) pp. 2165-2172.	


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				Confirmation Number	4664
				First Named Inventor	Gerrit Klaerner et al.
				Group Art Unit	1645-1641
				Examiner Name	
Sheet	12	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)

<i>MEC</i>	151	TSUBOKAWA et al. "Surface Modification of Carbon Microbead by the Grafting of Polymers" J.M.S. - Pure Appl. Chem., Vol. A32, No. 3 (1995) pp. 525-535.	
<i>✓</i>	152	VATANSEVER et al. "Modification of Glass Surfaces by Using Tethered Romp Catalysts" 215th ACS National Meeting, Dallas, TX (1998) Abstract 146.	
<i>✓</i>	153	WANG et al. "Facile Synthesis of New Unimolecular Initiators for Living Radical Polymerizations" Macromolecules, Vol. 31, No. 19 (1998) pp. 6727-6729.	
<i>✓</i>	154	WECK et al. "Ring-Opening Metathesis Polymerization from Surfaces" Journal of the American Chemical Society, Vol. 121, No. 16 (1999) pp. 4088-4089.	
<i>MEC</i>	155	WEISENHORN et al. "Imaging Single-Stranded DNA, Antigen-Antibody Reaction and Polymerized Langmuir-Blodgett Films with an Atomic Force Microscope" Scanning Microscopy, Vol. 4, No. 3 (1990) pp. 511-516.	
<i>✓</i>	156	WILLIAMS et al. "A New Mechanism Involving Cyclic Tautomers for the Reaction with Nucleophiles of the Water-Soluble Peptide Coupling Reagent 1-Ethyl-3-(3-(dimethylamino)propyl)carbodiimide (EDC)" Journal of the American Chemical Society, Vol. 103, No. 24 (1981) pp. 7090-7095.	
<i>✓</i>	157	XIA et al. "Soft Lithography" Angew. Chem. Int. Ed., Vol. 37 (1998) pp. 550-575.	
<i>✓</i>	158	YAMAMOTO et al. "Preparation of Well-Defined Polymer Brushes on Silicon Substrate by the Surface-Initiated ATRP Technique and Their Characterization" Polymer Preprints, Vol. 40, No. 2 (1999) pp. 401-402.	
<i>✓</i>	159	YIN et al. "Grafting of Poly(Acrylic Acid) onto Nonporous Glass Bead Surfaces" Polymers for Advanced Technologies, Vol. 8(1997) pp. 761-766.	
<i>MEC</i>	160	International Search Report for PCT/US00/18339 dated September 6, 2000.	

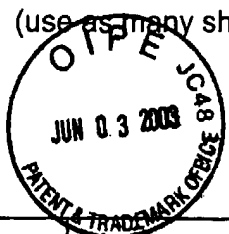
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				Group Art Unit	1645-1641
				Examiner Name	
Sheet	1	of	1	Attorney Docket No.	SMX 8093.6 (2001-006R1)



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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	161	5,843,655		McGall	12-01-1998
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ³
	162	Y-C. CHANG et al. "Surface Initiated Polymerization of Polyglutamate Copolymers" Abstract 304, Presented at the 209th ACS National Meeting in Anaheim, CA (April 2-7, 1995).			
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MAC	165	Y-C. CHANG et al. "Surface Polymerization of Poly(y-Alkyl-L-Glutamate) on Solid Substrates" Macromolecular Symposia, Vol. 118 (1997) pp. 641-646.			
	166	Y-C. CHANG Website at The Henry Samueli School of Engineering, homepage (2 pages) and Publications List (5 pages) printed 9/17/02.			

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